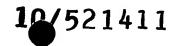
Rec'd PCT TO 14 JAN 2005



特許協力条約

PCT

国際予備審査報告

(法第12条、法施行規則第56条) [PCT36条及びPCT規則70]

出願人又は代理人 の書類記号 P023P06/PCT	今後の手続きについては、国際予備審査報告の送付通知(様式PCT/ IPEA/416)を参照すること。
国際出願番号 PCT/JP03/08939	国際出願日 (日.月.年) 14.07.2003 優先日 (日.月.年) 16.07.2002
国際特許分類 (IPC) Int.Cl' A61K67/027	
出願人 (氏名又は名称) 科学技術振興事業団	
2. この国際予備審査報告は、この表制 この国際予備審査報告には、M	・
この附属書類は、全部で	ページである。
IV 開発明の単一性の欠如	
国際予備審査の請求書を受理した日 01.10.2003	国際予備審査報告を作成した日 22.01.2004
名称及びあて先 日本国特許庁(IPEA/JP) 郵便番号100-8915 東京都千代田区霞が関三丁目4番	特許庁審査官(権限のある職員) 4N 9839 鈴木 美葉子 電話番号 03-3581-1101 内線 3488

国際予備審査報告

国際出願番号 PCT/JP03/08939

I. 国際予備審查報	段告の基礎		
1. この国際予備3 応答するため。 PCT規則70.	こ提出された差し替え用紙は、	基づいて作成され この報告書に	れた。 (法第6条 (PCT14条) の規定に基づく命令に おいて「出願時」とし、本報告書には添付しない。
X 出願時の国際	禁出願書類		
明細書	第	ページ、	出願時に提出されたもの
明細書	第	ーページ、	国際予備審査の請求書と共に提出されたもの
明細書	第	ページ、 	付の事簡と共に提出されたもの
請求の範囲	第	項、	出願時に提出されたもの
請求の範囲	第	項、	PCT19条の規定に基づき補正されたもの
請求の範囲	第	項、	国際予備審査の請求書と共に提出されたもの
請求の範囲	第	項、 ·	付の書簡と共に提出されたもの
図面 ·	第		出願時に提出されたもの
図面	第	ページ/図、	国際予備審査の請求書と共に提出されたもの
図面	第	ページ/図、	付の書簡と共に提出されたもの
明細帯の配列	刊表の部分 第	ページ、	出願時に提出されたもの
	列表の部分 第	ーページ	国際予備審査の請求書と共に提出されたもの
明細書の配列	刊表の部分 第	ページ、	付の書簡と共に提出されたもの
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		気ディスクによ	る配列表に記録した配列が同一である旨の陳述書の提出
	下記の書類が削除された。		÷
明細書	第	ページ	
請求の範囲	第	項	DA S
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れるので、そ	講審査報告は、補充欄に示した その補正がされなかったものと ける判断の際に考慮しなけれた	として作成した。	が出願時における開示の範囲を越えてされたものと認めら(PCT規則70.2(c) この補正を含む差し替え用紙は上告に添付する。)
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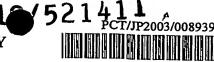
国際予備審査報告

国際出願番号 PCT/JP03/08939

. 見解			
新規性(N)	請求の範囲 請求の範囲	1-10	有 無
進歩性(IS)	請求の範囲 請求の範囲	1-10	
産業上の利用可能性 (IA)	請求の範囲	1-10	有 無
. 文献及び説明(PCT規則70.7)		· · · · · · · · · · · · · · · · · · ·	
文献 1 : 小柳義夫, 特集 1 : ウイル 染モデル,	•	免疫不全マウスを用い	たウイルス感
文献 1: 小柳義夫, 特集 1: ウイル 染モデル, ウイルス(1999), Vol. 49, N 文献 2: Seigo TARAOKA, et. al., A metastasis of human lun Jpn J Cancer Res(1995), 文献 3: Toshio KUDO, et. al., Prod peptide by active in vi lymphocytes., Tohoku J. Exp. Med. (1993)	novel SCID mouse mode g cancer to human tiss Vol.86, No.5, p.419-423 uction of a human mono vo immunization using	for studying spontar sue.,	neous
染モデル, ウイルス(1999), Vol. 49, N 文献 2: Seigo TARAOKA, et.al., A metastasis of human lun Jpn J Cancer Res(1995), 文献 3: Toshio KUDO, et. al., Prod peptide by active in vi lymphocytes., Tohoku J. Exp. Med. (1993) 【請求の範囲 1 — 1 0 について】 請求の範囲 1 — 1 0 に係る発明に 文献 1 には、SCIDマウスの腎皮服 載されている。 文献 2 には、正常肺や肺ガン組結 る旨、記載されている。	lo. 1, p. 33-39 novel SCID mouse model g cancer to human tiss Vol. 86, No. 5, p. 419-423 uction of a human mone vo immunization using , Vol. 171, p. 327-338 は、文献1-3より進歩したとト胎児肝臓片、原数をSCIDマウスに移植した	for studying spontar sue., eclonal antibody to a a SCID mouse grafted 生を有さない。 台児胸腺組織を定着させ	neous synthetic with human たマウスが記 転移を研究す
染モデル, ウイルス(1999), Vol. 49, N 文献 2: Seigo TARAOKA, et.al., A metastasis of human lun Jpn J Cancer Res(1995), 文献 3: Toshio KUDO, et.al., Prod peptide by active in vi lymphocytes., Tohoku J. Exp. Med. (1993) 【請求の範囲 1 — 1 0 について】 請求の範囲 1 — 1 0 に係る発明に 文献 1 には、SCIDマウスの腎皮服 載されている。 文献 2 には、正常肺や肺ガン組織	lo. 1, p. 33-39 novel SCID mouse model grancer to human tiss Vol. 86, No. 5, p. 419-423 fuction of a human mone vo immunization using , Vol. 171, p. 327-338 は、文献1-3より進歩したといるといる。 は、文献1-3より進歩したとト胎児肝臓片、が はをSCIDマウスに移植した	for studying spontar sue., clonal antibody to a a SCID mouse grafted 生を有さない。 台児胸腺組織を定着させ こマウスを用いて、癌の ナチュラルキラー細胞な	neous synthetic with human たマウスが記 転移を研究す を抑制した

Rec'd PCT/PTO 14 JAN 2005





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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anslation inter	NATIONAL PRELIMINARY EXAMINATION REPORT
	(PCT Article 36 and Rule 70)
Applicant's or agent's file reference P023P06/PCT	FOR FURTHER ACTION See Notification of Transmittal of Inte
International application No. PCT/JP2003/008939	International filing date (day/month/year) Priority date (day/month/year) 14 July 2003 (14.07.2003) 16 July 2002 (16.07.20
International Patent Classification (IP A01K 67/027	
Applicant	N SCIENCE AND TECHNOLOGY CORPORATION
amended and are the b	ompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which hap pasis for this report and/or sheets containing rectifications made before this Authority (s
/0.16 and Section 60/	of the Administrative Instructions under the PCT).
These annexes consist	of the Administrative Instructions under the PCT).
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These annexes consist 3. This report contains indication I Basis of the real Priority III Non-establish IV Lack of unity V Reasoned state citations and contains and courter the contains and c	of a total of sheets. ons relating to the following items: report ment of opinion with regard to novelty, inventive step and industrial applicability of invention tement under Article 35(2) with regard to novelty, inventive step or industrial applicability explanations supporting such statement ments cited
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/008939

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1. With		to the elements of the international application:*
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the in These	the lang the lang	o the language, all the elements marked above were available or furnished to this Authority in the language in which hal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language which is: guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). In guage of publication of the international application (under Rule 48.3(b)). In guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/).
3. With prelin	regard minary ex	to any nucleotide and/or amino acid sequence disclosed in the international application, the international camination was carried out on the basis of the sequence listing:
H		ed in the international application in written form.
H	nieu we	gether with the international application in computer readable form.
H		ed subsequently to this Authority in written form.
H		ed subsequently to this Authority in computer readable form.
		atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the ional application as filed has been furnished.
	The stat	tement that the information recorded in computer readable form is identical to the written sequence listing has mished.
ı. 🔲	F1	endments have resulted in the cancellation of:
ļ		he description, pages
ļ	<u></u>	he claims, Nos
Į		he drawings, sheets/fig
. 🗆 ;	This repo	ort has been established as if (some of) the amendments had not been made, since they have been considered to go he disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
Replac	cement sh	neets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16
	-	nt sheet containing such amendments must be referred to under item 1 and approved to this recover



International application No.
PCT/JP03/08939

tatement			,
Novelty (N)	Claims	1-10	YE
	Claims		NO
Inventive step (IS)	Claims		YE
	Claims	1-10	МО
Industrial applicability (IA)	Claims	1-10	YE
	Claims		NO

2. Citations and explanations

Document 1: "Feature 1: New Research Methods of Virology; 5. Virus-infected Models Using Immune-deficient Mice (in Japanese)," (Yoshio Koyanagi), Virus, 1999, Vol. 49, No. 1, pages 33-39
Document 2: "A Novel SCID Mouse Model for Studying Spontaneous Metastasis of Human Lung Cancer to Human Tissue," (Seigo Taraoka, et al.), Jpn. J. Cancer Res., 1995, Vol. 86, No. 5, pages 419-423
Document 3: "Production of a Human Monoclonal Antibody to a Synthetic Peptide by Active in vivo Immunization Using a SCID Mouse Grafted with Human Lymphocytes," (Toshio Kudo, et al.), Tohoku J. Exp. Med., 1993, Vol. 171, pages 327-338

Claims 1-10

The subject matters of claims 1-10 do not appear to involve an inventive step in view of documents 1-3.

Document 1 describes SCID mice having a human fetal liver fragment or fetal thymic tissue fixed in their renal capsules.

Document 2 describes to the effect that cancer metastasis is studied using SCID mice grafted with normal lung tissue or lung cancer tissue.

Document 3 describes a SCID mouse that was administered with an anti-asialo GM1 antibody for inhibiting natural killer cells and subsequently grafted with human lymphocytes.

Since it is publicly known from documents 1-3 to produce a model animal in which an immuno-deficient animal called a SCID mouse is grafted with a human organ or cancer tissue, it is not considered difficult to obtain a model animal in which a SCID mouse is grafted with a human liver cirrhosis tissue.

Furthermore, the subject matters of claims 1-10 exhibit an effect only to such an extent that it can be predicted. (The invention of the present application merely confirms that human liver cirrhosis tissue can be taken in the kidney.)